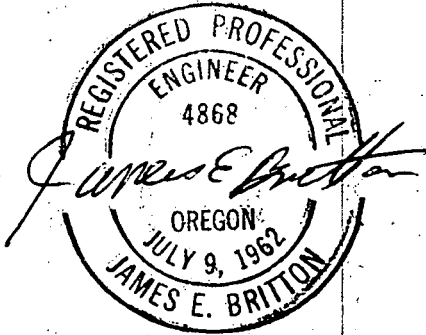
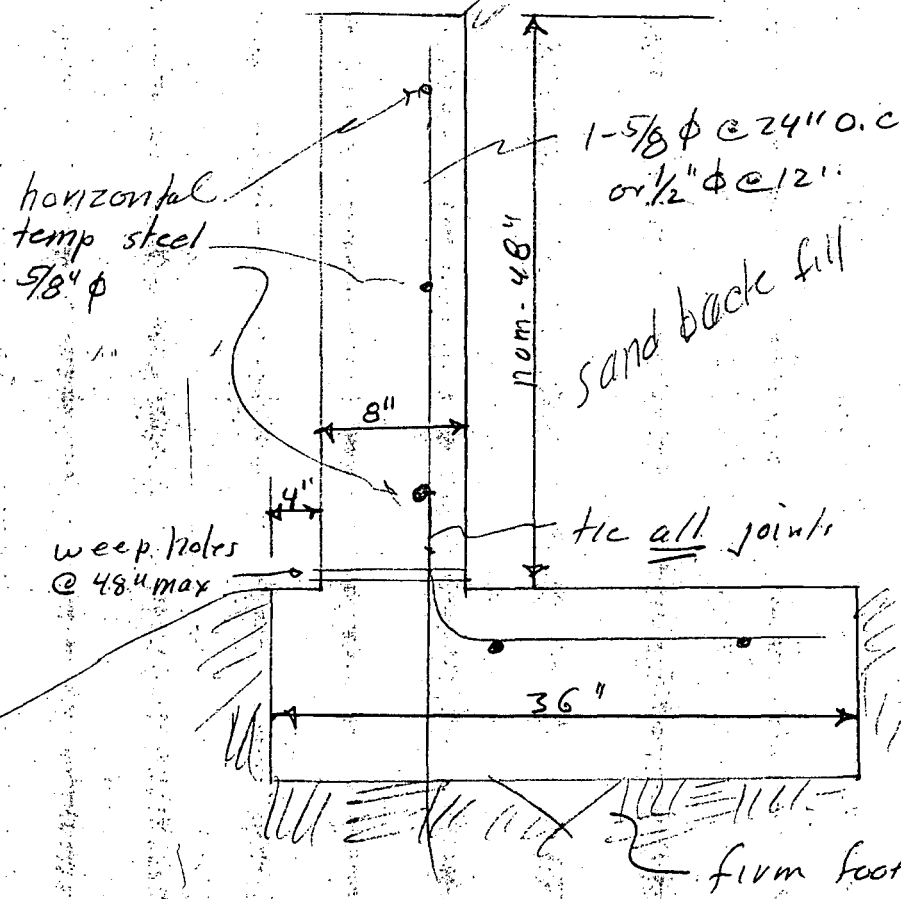


NOTE Top of wall
to be no more than
6' below adjacent footing

surface of
slope must be stabilized
stop/zing material
max slope 18°
-flatter preferred



conc - 2500 psi

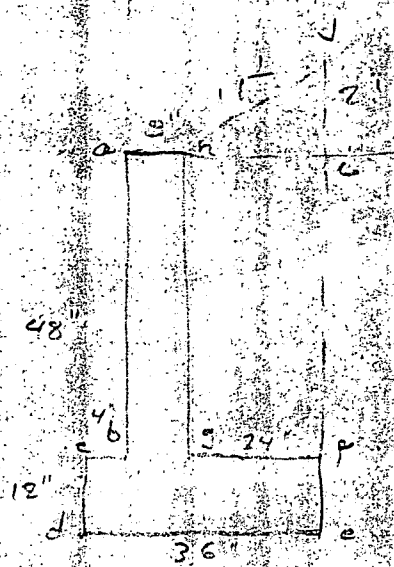
Retaining wall to be installed on Abbey street
5 plex (Bob Hill) in Newport, Oregon. begins opposite
approx mid point unit 3 & runs Easterly 60'±.

Present and future owners are responsible to stabilize
and maintain stabilization of soil above and below
wall.

2P50
606 Thru 637 SW Abbey -

2/4

Wall calcs
5 plex - Newport
Bob Hill



$$\begin{aligned}
 a d e f &= 3 \times 1 \times 150 = 450 \text{ ft} \times 1 \frac{1}{2} = 675 \text{ ft} \\
 b g a h &= 4 \times \frac{2}{3} \times 150 = 400 \text{ ft} \times \frac{2}{3} = 267 \text{ ft} \\
 g f a h &= 2 \times 4 \times 100 = 800 \text{ ft} \times 2 = 1,600 \text{ ft} \\
 h e d &= 2 \times 2 \times 100 = 200 \text{ ft} \times 2 \frac{1}{3} = 468 \text{ ft} \\
 w &= 1950 \text{ ft} \quad M = 3,010 \text{ ft-lb}
 \end{aligned}$$

$$\begin{aligned}
 (1850) \times &= 3,010 \\
 x &= 1.62 \text{ ft}
 \end{aligned}$$

$$P = 0.833 \times \frac{w \cdot h^2}{2} = 0.833 \times \frac{100 \times 4 \times 4}{2} = 666.4$$

horizontal component = 470

$$4 - 3 = 1.33$$

$$M = 470 \times 1.33 \times 12 = 7,500 \text{ in-lb}$$

$$d = \sqrt{\frac{M}{K_b}} = \sqrt{\frac{7,500}{164 \times 12}} = 1.95 \text{ ft} + \text{thickness (8" ok)}$$

$$A_s = \frac{M}{f_s \cdot j \cdot d} = \frac{7,500}{20,000 \times 0.875 \times 8} = 0.05 \text{ in/ft} - \text{exceeds}$$

6 # 1 - 5/8 @ 24"

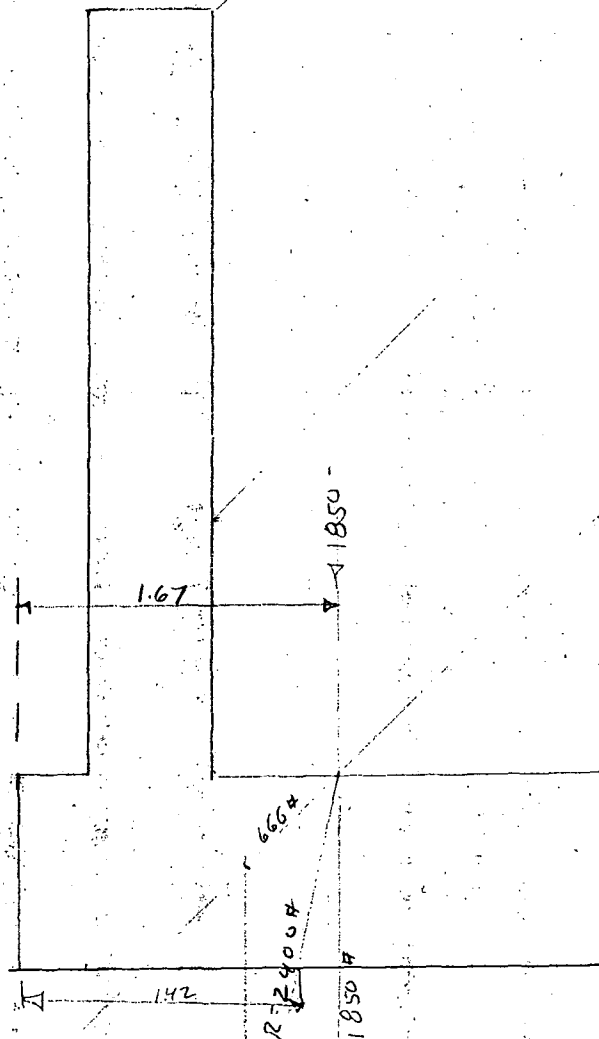
QUINER & BRITTON
CONSULTING ENGINEERS
751 WEST TWELFTH AVE.
EUGENE, OREGON 97402

FEB 3/28/72

3/4

$$\frac{7}{3} = 2\frac{1}{3}$$

6661b thrust



Scale 1" = 1'

QUINER & BRITTON
CONSULTING ENGINEERS
131 WEST TWELFTH AVE.
EUGENE, OREGON 97402

LED 3/27/77

overturning about toe -

$$f_1 = (12 - 1.42) \frac{2300}{9} = 10.58 \left(\frac{2300}{9} \right) = 2703 \text{ lb/ft}$$

exceeds soil bearing capacity — OK —

CITY OF NEWPORT OREGON
PERMIT

FOR OFFICE USE ONLY

No. Families

Permit No. 2999 ✓

Occ. Cert. No. _____

Land Zone C-2 Type of Building _____ Residence _____

Fire Zone _____ Occupancy Group _____ Apartment _____

Permit To SEWERAddress 605-613-621-629-637 S.W. Abbey StLot 1 & 12 Block 85 Addition C & B 2nd

BUILDING PERMIT

Application is made to { Erect ☐ Relocate ☐
Alter ☐ Demolish ☐
Repair ☐ Reroof ☐

A Building Structure and/or covers {

Fill ☐
Excavation ☐
Construction ☐
Demolition ☐

Entire work when completed will cost, including labor and materials: \$ _____ Fee \$ _____

MECHANICAL PERMIT

Heating \$ _____ Ventilation \$ _____ Refrigeration \$ _____

Incinerator \$ _____ Comfort Cooling \$ _____ Value \$ _____ Fee \$ _____

MISCELLANEOUS PERMITS

Fees

Sewer \$ 200 Curb Cut \$ _____ Sign \$ _____ Value \$ _____ Fee \$ _____

Sidewalk \$ _____ Plumbing \$ _____ Gas \$ _____

Driveway \$ _____ Street Opening \$ _____ Other \$ _____

Fee \$ 200TOTAL FEES \$ 200

Owner _____ Address _____ Phone _____

Builder Belloni Address 409 N.E. 4th Phone 265-7672

Architect _____ Address _____ Phone _____

Plans Attached _____ Plans on File _____ Remarks _____

DESCRIPTION OF WORK

ONLY WORK DESCRIBED ABOVE INCLUDED IN PERMIT

Variance Case No. _____

I agree to build according to above description, plans and specifications
and the Ordinances and Codes of the City of Newport.Applicant James Belloni

APPLICATION RECEIVED

PLANS CHECKED BY PLAN EXAMINER

PERMIT ISSUED

Approved _____

Not Approved _____

By _____

By Don CunninghamDate 6-8-72

Date _____

Date 6-8-72Final Date 8/31/72

CITY OF NEWPORT OREGON
PERMIT.

FOR OFFICE USE ONLY

Permit No. 2850

Occ. Cert. No. _____

Land Zone C-2 Type of Building V No. Families 5
 Zone 2 Occupancy Group H Residence 5
Apartment

Permit To Erect 5plexAddress 605-613-621-629-637 SW Abbey St.Lot 1 & 12 Block 85 Addition C & B 2nd11-11-8-BC

BUILDING PERMIT

Application is made to { Erect ☒ Relocate ☐
 Alter ☐ Demolish ☐
 Repair ☐ Reroof ☐

A Building Structure and/or covers

Fill ☐
 Excavation ☒
 Construction ☒
 Demolition ☐

Entire work when completed will cost, including labor and materials: \$ 68,000 Fee \$ 191.50

MECHANICAL PERMIT

Heating \$ _____ Ventilation \$ _____ Refrigeration \$ _____

Incinerator \$ _____ Comfort Cooling \$ _____ Value \$ _____ Fee \$ _____

MISCELLANEOUS PERMITS

Fees

Sewer \$ _____ Curb Cut \$ _____ Sign \$ _____ Value \$ _____ Fee \$ _____

Sidewalk \$ _____ Plumbing \$ _____ Gas \$ _____

Driveway \$ _____ Street Opening \$ _____ Other \$ _____

Fee \$

TOTAL FEES \$ 191.50Owner S & W Realty & Others Address _____ Phone _____Builder Robert N. Hill Address 2334 Dornoch - Springfield Phone 97477 746-9916Architect Willard Schwarz Address 9305 So. Hwy 101 Linc. City Phone 97367 996-2430Plans Attached _____ Plans on File _____ Remarks Col. Johnson 867-6185

DESCRIPTION OF WORK

Erect 5 plex on per plan w/notations
Engineer - Tim Britton, Quince & Britton, Eugene
5/12/72 - See correspondence to TCBO Re: Research
Rec # 1581 - 7/6/72 Fire place hearth cut to
Mfg Spacing. Posted Red card for fire stopping
Lacking in garage separation walls - and
5- 3/4 meters. Annual fire place - and no mural

ONLY WORK DESCRIBED ABOVE INCLUDED IN PERMIT

I agree to build according to above description, plans and specifications
 and the Ordinances and Codes of the City of Newport.

Variance Case No. overApplicant Robert Hill

APPLICATION RECEIVED

PLANS CHECKED BY PLAN EXAMINER

PERMIT ISSUED

Approved

Not Approved

By _____

By _____

By R. Yale Redef

Date _____

Date _____

Date 2/10/72

Final Date _____

2/4/72 was stuffed in cracks of sand walls.

8/10/72 - OK -

4/25/73 - Plans filed - This project done except for ^{storm} drainage water plumbing along back.

CITY OF NEWPORT OREGON
PERMIT

4466X

FOR OFFICE USE ONLY

No. Families

Permit No.

Occ. Cert. No.

Land Zone C-2 Type of Building II Residence _____
 Fire Zone 2 Occupancy Group H Apartment _____

Permit To Reroof Dwg
 Address 605-613-621-629-637 SW Abbey

Lot _____ Block _____ Addition _____

BUILDING PERMIT

Application is made to { Erect ☐ Relocate ☐ Alter ☐ Demolish ☐ Repair ☐ Reroof ☒ } A Building Structure and/or covers

Fill ☐
 Excavation ☐
 Construction ☒
 Demolition ☐

Entire work when completed will cost, including labor and materials: \$ 2,000 Fee \$ 20⁰⁰ + 60¢

MECHANICAL PERMIT

Heating \$ _____ Ventilation \$ _____ Refrigeration \$ _____

Incinerator \$ _____ Comfort Cooling \$ _____ Value \$ _____ Fee \$ _____

MISCELLANEOUS PERMITS

Fees

Sewer \$ _____ Curb Cut \$ _____ Sign \$ _____ Value \$ _____ Fee _____

Sidewalk \$ _____ Plumbing \$ _____ Gas \$ _____

Driveway \$ _____ Street Opening \$ _____ Other \$ _____

Fee \$

TOTAL FEES \$ 20⁰⁰ + 60¢

Owner SW Realty Address _____ Phone _____

Builder Ocean lake roofing Address _____ Phone _____

Architect _____ Address _____ Phone _____

Plans Attached _____ Plans on File _____ Remarks _____

DESCRIPTION OF WORK

Reroof w/ 3 ply Fiber glass

ONLY WORK DESCRIBED ABOVE INCLUDED IN PERMIT

Variance Case No. _____

I agree to build according to above description, plans and specifications and the Ordinances and Codes of the City of Newport.

Applicant

La Jorgensen

APPLICATION RECEIVED	PLANS CHECKED BY PLAN EXAMINER	PERMIT ISSUED
By _____	Approved _____ Not Approved _____	By <u>Elin Hargis</u>
Date _____	Date _____	Date <u>4/14/76</u>

Final Date _____

FOR OFFICE USE ONLY

Permit Nº 6850 X

Land Zone R-4 Type of Building IV No. Families _____ Occ. Cert. No. _____
 Motel _____ Occupancy Group R-1 Apartment _____ Sprinkler System or
 Fire Walls Required _____

Permit To Repair AptAddress 629 SW ABBEYTax Lot _____ Map _____ Lot 5312 Block 55 Addition B&C 3

BUILDING PERMIT

Application is made to { Erect ☐ Relocate ☐ Building ☐ Fill ☐
 { Alter ☐ Demolish ☐ Structure ☐ Excavation ☐
 { Repair ☐ Reroof ☐ Demolition ☐ Construction ☐
 Entire work when completed will cost, including labor and materials: \$ 500 Fee \$ 500

EXCAVATION & FILL

Excavation ☐ Cubic yds. _____
 Fill ☐ Cubic yds. _____ Fee \$ _____

MISCELLANEOUS PERMITS

Sewer \$ _____ Curb Cut \$ _____ Sign _____ SQ. FT. _____
 Sidewalk \$ _____ Temporary Structures \$ _____ Temporary Sign _____ SQ. FT. _____
 Driveway \$ _____ Street Opening \$ _____ Other \$ _____
 Plan Review Fee \$ 4% STATE \$.20
TOTAL FEES ➔ \$ 5.20

Owner Abbey St. Condo Address _____ Phone _____
 Builder Johnston & Johnson Address _____ Phone _____
 Builder's Board No. _____ Exp. Date _____
 Architect _____ Address _____ Phone _____
 Geologist _____ Address _____ Phone _____

DESCRIPTION OF WORK

Repair Lot

ONLY WORK DESCRIBED ABOVE INCLUDED IN PERMIT

I agree to build according to above description, plans and specifications
 and the Ordinances and Codes of the City of Newport.

Variance No. _____ Date _____

Applicant B. J. B. B.

APPLICATION RECEIVED	PLANS CHECKED BY PLAN EXAMINER	PERMIT ISSUED
By _____	Approved _____ Not Approved _____	By _____
Date _____	Date _____	Date _____

Final Date _____

NOTICE OF PLANS REVIEW

(THIS IS NOT A BUILDING PERMIT)



Building Schwartz Five Plex Abbey & 8th St Newport No. 9012
County Lincoln BUILDING ADDRESS
Occupancy H 9 f Const. N Sound Value 80,000⁰⁰ Plan Fee 46.50
Architect Willard Schwartz Designer New Bldg. ☒ Addition ☐ Alteration ☐ Date Received 12/20/71
Owner Willard Schwartz & associates Address 3305 So. Hwy #101 Lincoln City Date Reviewed 1/6/72
Stories 2 Area 4402 NONE Attic NONE Fire Walls No Fire Escapes No Exits 1-ea Unit 3' ea
MAIN FLR. BASEMENT HT. STOPS
Stairs 5 / yes Vert. Shafts No / — Sprinklers X / — / — Man. Alarm No S.P. None shown
Ext. N-S / — Ht. Det. N-S / — Floor wood Ceiling N/B Roof Shakes Str. Members wood
CLASS NO. TYPE AREA COVD. INT. SIZE EXT.
Wall cover Harold / N/B Htr. rm. encl. N-S Type flue N-S Type Htg. System N-S Fuel N-S

The submitted plans have been reviewed for conformity with fire protection statutes and regulations of Oregon administered by this office. Items No. 5-6-7-9-10-11-17-19-21-27-29-39 checked on the enclosed list are applicable. These items and any specially noted provisions must be incorporated into the project to meet current fire protection regulations. Approval of submitted plans is not an approval of omissions or oversights by this office or of noncompliance with any applicable regulations of local government.

REMARKS: (A) If area under stairways is to be used for storage it must be entirely enclosed with one hour fire resistance construction. (B) The garages must be separated from living quarters with one hour fire resistance construction & the ceiling roof combination shall be one hour fire resistance.

C. WALTER STICKNEY
STATE FIRE MARSHAL
668 CHURCH STREET N.E.
SALEM, OREGON 97310

SFM-7

Salem files: State Board of Architects
Owner: Lincoln Co. Fire Dept
Copies to: City Building Dept

Examined by A. H. Ferguson

STATE OF OREGON
OFFICE OF STATE FIRE MARSHAL

Plans Review Number 9012

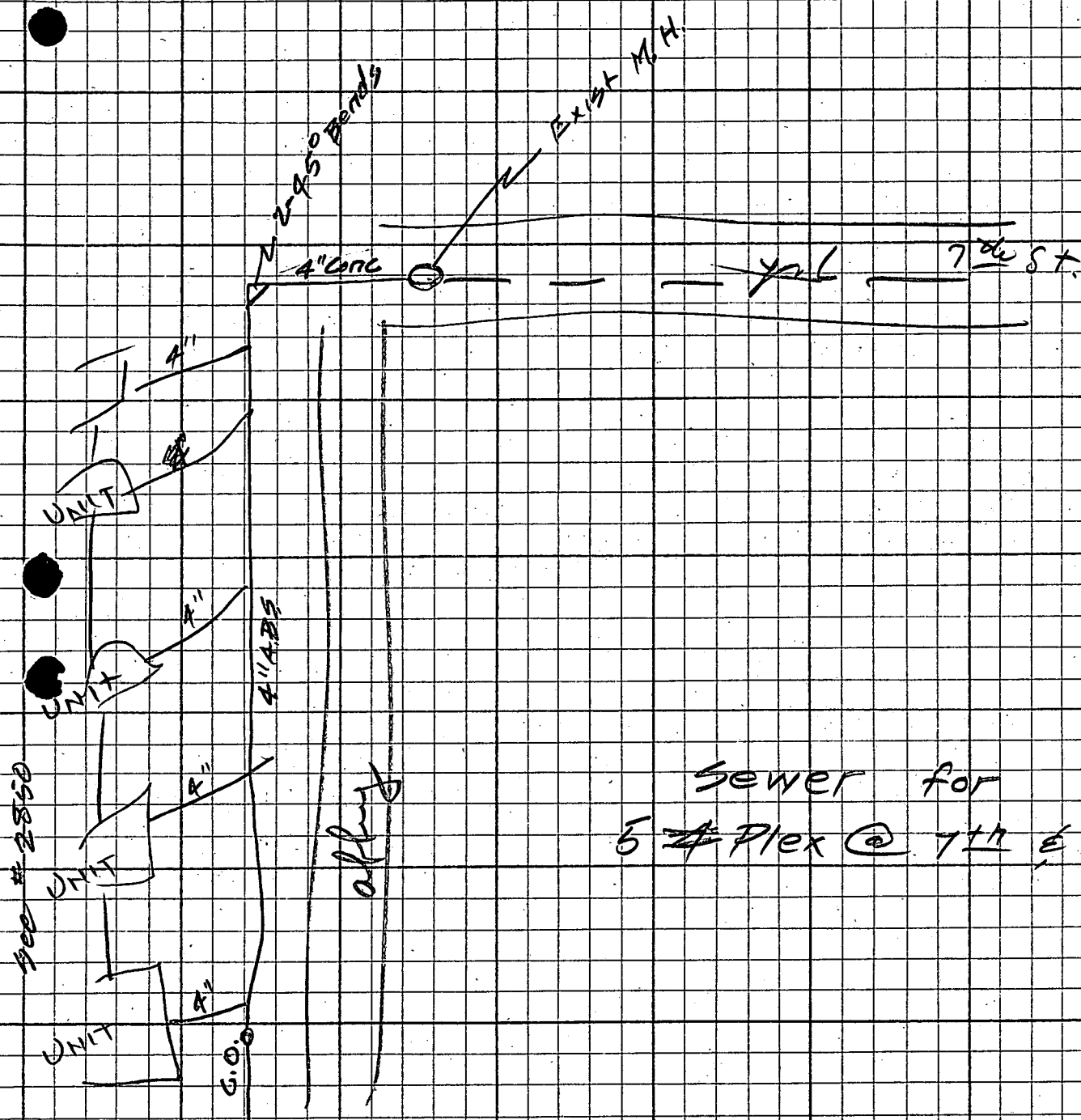
CHECK-MARKED REGULATIONS, IN ADDITION TO ANY REQUIREMENTS APPEARING ON THE ATTACHED REVIEW NOTICE, MUST BE INCORPORATED INTO THIS PROJECT.

Approval of submitted plans does not constitute approval of any omissions or oversights nor of noncompliance with any applicable regulations of local government that may exceed State requirements.

1. Structure required to be (☒ Type I) (☒ Type II) throughout due to (☒ area) (☒ height).
2. One-hour fire resistance rating required for all interior construction.
3. All living units required to be completely separated by one-hour fire resistive construction.
4. Exit corridors require separation from any other area by one-hour fire resistive construction.
5. Fire resistance of doors of interior openings to corridors required to equal 1-3/4" solid core doors. Relights in corridors require wired glass set in fixed (steel) framing.
6. Storage rooms, closets, laboratories, shops and areas of similar hazard require separation from other areas by at least one-hour fire resistive construction. Furnace and boiler rooms require one-hour fire resistive construction.
7. All vertical openings such as stairways, trash chutes, etc., require full enclosure of (☒ 1-hour) (☒ 2-hour) fire resistance. Access ways to such shafts require self-closing and latching Class B fire door assemblies (☒ 1-hour rated) (☒ 1-1/2-hour rated).
8. Attic areas require draft barriers as per Sec. 3205, not exceeding each 3,000 square feet. (9,000 square feet where sprinkler protection provided)
9. Voids created by ceiling-floor systems require draft barriers not exceeding each 1,000 square feet.
10. Building projections such as balconies, eaves, overhangs, etc., require fire protection equal to interior ceilings with all openings protected as required for ceilings to prevent passage of fire into building voids and attics.
11. Fire stops, blocking or framing members pierced for utility runs require packing to equal fire resistance prior to such piercing. Wood frame construction requires firestopping of both vertical and horizontal draft openings at maximum intervals of 10 feet.
12. Corridors require at least 6 feet in clear width. Drinking fountains or other equipment may not operate in a manner which would obstruct the minimum 6-foot width.
13. Corridors serving patient bedrooms require at least 8 feet in width.
14. Corridors require smoke barrier partitions with double swing doors at 150-foot intervals arranged so that each area housing more than 35 patients is divided into at least two compartments.
15. Exit doors from lobbies, corridors and rooms with potential occupancies of 50 or more are required to swing in the direction of exit travel.
16. Exit doors from lobbies, corridors and assembly areas require panic hardware.
17. Hardware for all doors is required to be of simple type having no provisions for locking against egress, with obvious method of operation.
18. At least 44" (inches) in clear width, without projections, is required for exits and patient room doors through which patients must be transported in wheelchairs, stretchers or beds.
19. Sleeping rooms require at least one window readily openable from inside without special tools and providing a clear opening of not less than 720 square inches with the least dimension not less than 22 inches. Maximum permitted height to bottom of opening from floor is 48 inches. (Ref: Sec. 1304)
20. Surface flame spread rates of walls and ceilings, minimum requirement: stairway - 25, corridors - 75, other rooms - 225. (Sec. 4203)
21. Combustible acoustical material required to be secured with staples or equivalent metallic holders or a heat resistant adhesive capable of withstanding 1000° F. for one-half hour.

22. All curtains, drapes and similar furnishings are required to be noncombustible or rendered and maintained flameproof.
23. All auditorium seats are required to be securely fastened to the floor.
24. Rows of seats between aisles may not exceed 14. Rows of seats opening onto aisles at one end only may not exceed 7 seats. (See continental spacing, Sec. 3313-3314)
25. Seat row spacing, back to back, required to be at least 33 inches, or 27 inches plus thickness of seat back and inclination of back.
26. Posting of capacity of assembly areas as noted is required by ORS 479.195.
27. Heating, cooking, air conditioning and similar service equipment are required to be approved and listed by a nationally recognized testing agency, such as U.L., Inc., and to be installed in compliance with agency's specifications and recognized safe practices. The installation of ventilation systems is required to be in substantial conformity with the 1970 U.B.C., Volume II. Corridors are not acceptable for use as supply or return air plenums.
28. A dust collection system is required for shop areas for nonportable machines emitting or producing dusts. (Ref: Sec. 1008) Dust collection equipment to be located outside of building or in one-hour separated room equipped with automatic sprinklers.
29. Pressure relief valves are required for all water heaters, installed either in separate water tank port or in port for hot water line. Shutoff valves may not be located between a water tank and relief valve.
30. A firefighting water supply is required within 500 feet of building that is capable of producing 500 gpm (minimum) for 10 minutes for each 5,000 square feet of floor area within building up to a maximum of 500 gpm for 30 minutes or from 5,000 to 15,000 gallons of stored or static water. (Ref: ORS 479.200)
31. Interior wet standpipes at least 2 inches in diameter located and equipped as per Sec. 3804 are required. Couplings and connections required to be American National Standard Thread. Where standpipes are served by sprinkler piping, a 1-inch reducing orifice is required at the hose valve connection.
32. Approved automatic sprinkler protection throughout occupancy is required. Piping to be flushed of debris, with certification of flushing submitted to this office.
33. Approved automatic sprinklers are required over and under stage and in all auxiliary areas, including dressing rooms, storerooms and workshops. (Sec. 3802) Sprinkler feed piping required to be flushed of debris, with certification of flushing submitted to this office.
34. Stage roof ventilators displacing at least 5% of stage floor area, openable by hand from stage floor and by fusible link or other heat activated device, are required. (Sec. 3901-06)
35. An approved fire alarm system with signals audible throughout building and manual alarm sending stations adjacent to exits from each floor or area are required.
36. An approved electrically supervised combustion detection of the ionization type is required for all patient rooms.
37. All exit doors and access ways thereto are required to be identified by approved electrically illuminated signs served by two circuits with one separate from all other circuits. (Sec. 3312)
38. An emergency power system is required for the () gymnasium () auditorium () building to maintain exit illumination for not less than one-half hour in event of public utility failure.
39. Fluorescent light fixtures installed on combustible surfaces are required to be U.L., Inc., approved for such mounting, or installed to provide at least 1-inch air space between the fixture housing and combustible material.

NOTE: Local regulations or insurance standards for most favorable insurance credit may, and often do, exceed these minimum State requirements.



SEWER for
5 # Plex @ 7th & Abbey

NOTICE OF PLANS REVIEW

(THIS IS NOT A BUILDING PERMIT)



Building Schwartz Fire Plex Abbey & 8th St Newport No. 9012
County Lincoln BUILDING ADDRESS
Occupancy H 9 f Const. N Sound Value 80,000⁰⁰ Plan Fee 46.50
Architect Willard Schwartz - Designer New Bldg. ☒ Addition ☐ Alteration ☐ Date Received 12/20/71
Owner Willard Schwartz & Associates Address 3305 So. Hwy #101 Lincoln City Date Reviewed 1/6/72
Stories 2 Area 4402 NONE Attic NONE Fire Walls NO Fire Escapes NO Exits 1 - ea Unit - 3' ea
MAIN FLR. BASEMENT HT. STOPS TOT. WIDTH
Stairs 5 / yes Vert. Shafts NO / — Sprinklers X / — / — Man. Alarm no S.P. none shown
Ext. N.S. / — Ht. Det. N.S. / — Floor wood Ceiling N.B. Roof Shakes Str. Members wood
CLASS NO. TYPE AREA COVD. INT. SIZE EXT.
Wall cover Wynard / N.B. Htr. rm. encl. N.S. Type flue N.S. Type Htg. System N.S. Fuel N.S.

The submitted plans have been reviewed for conformity with fire protection statutes and regulations of Oregon administered by this office. Items No. 5-6-7-9-10-11-17-19-21-27-29-39 checked on the enclosed list are applicable. These items and any specially noted provisions must be incorporated into the project to meet current fire protection regulations. Approval of submitted plans is not an approval of omissions or oversights by this office or of noncompliance with any applicable regulations of local government.

REMARKS: (A) Area under stairways is to be used for storage it must be entirely enclosed with one hour fire resistant construction. (B) The garages must be separated from living quarters with one hour fire resistant construction & the ceiling roof combination shall be one hour fire resistant.

C. WALTER STICKNEY
STATE FIRE MARSHAL
668 CHURCH STREET N.E.
SALEM, OREGON 97310

SFM-7

Salem files - State Board of Architects
Owner - Lincoln Co. Fire Dept
Copies to: City Building Dept

Examined by E. J. Ferguson

STATE OF OREGON
OFFICE OF STATE FIRE MARSHAL

Plans Review Number 7012

CHECK-MARKED REGULATIONS, IN ADDITION TO ANY REQUIREMENTS APPEARING ON THE ATTACHED REVIEW NOTICE, MUST BE INCORPORATED INTO THIS PROJECT.

Approval of submitted plans does not constitute approval of any omissions or oversights nor of noncompliance with any applicable regulations of local government that may exceed State requirements.

1. Structure required to be (☒ Type I) (☒ Type II) throughout due to (☒ area) (☒ height).
2. One-hour fire resistance rating required for all interior construction.
3. All living units required to be completely separated by one-hour fire resistive construction.
4. Exit corridors require separation from any other area by one-hour fire resistive construction.
- (5) Fire resistance of doors of interior openings to corridors required to equal 1-3/4" solid core doors. Relights in corridors require wired glass set in fixed (steel) framing.
- (6) Storage rooms, closets, laboratories, shops and areas of similar hazard require separation from other areas by at least one-hour fire resistive construction. Furnace and boiler rooms require one-hour fire resistive construction.
- (7) All vertical openings such as stairways, trash chutes, etc., require full enclosure of (☒ 1-hour) (☒ 2-hour) fire resistance. Access ways to such shafts require self-closing and latching Class B fire door assemblies (☒ 1-hour rated) (☒ 1-1/2-hour rated).
8. Attic areas require draft barriers as per Sec. 3205, not exceeding each 3,000 square feet. (9,000 square feet where sprinkler protection provided)
9. Voids created by ceiling-floor systems require draft barriers not exceeding each 1,000 square feet.
- (10) Building projections such as balconies, eaves, overhangs, etc., require fire protection equal to interior ceilings with all openings protected as required for ceilings to prevent passage of fire into building voids and attics.
- (11) Fire stops, blocking or framing members pierced for utility runs require packing to equal fire resistance prior to such piercing. Wood frame construction requires firestopping of both vertical and horizontal draft openings at maximum intervals of 10 feet.
12. Corridors require at least 6 feet in clear width. Drinking fountains or other equipment may not operate in a manner which would obstruct the minimum 6-foot width.
13. Corridors serving patient bedrooms require at least 8 feet in width.
14. Corridors require smoke barrier partitions with double swing doors at 150-foot intervals arranged so that each area housing more than 35 patients is divided into at least two compartments.
15. Exit doors from lobbies, corridors and rooms with potential occupancies of 50 or more are required to swing in the direction of exit travel.
16. Exit doors from lobbies, corridors and assembly areas require panic hardware.
- (17) Hardware for all doors is required to be of simple type having no provisions for locking against egress, with obvious method of operation.
18. At least 44" (inches) in clear width, without projections, is required for exits and patient room doors through which patients must be transported in wheelchairs, stretchers or beds.
- (19) Sleeping rooms require at least one window readily openable from inside without special tools and providing a clear opening of not less than 720 square inches with the least dimension not less than 22 inches. Maximum permitted height to bottom of opening from floor is 48 inches. (Ref: Sec. 1304)
20. Surface flame spread rates of walls and ceilings, minimum requirement: stairway - 25, corridors - 75, other rooms - 225. (Sec. 4203)
- (21) Combustible acoustical material required to be secured with staples or equivalent metallic holders or a heat resistant adhesive capable of withstanding 1000° F. for one-half hour.

22. All curtains, drapes and similar furnishings are required to be noncombustible or rendered and maintained flameproof.
23. All auditorium seats are required to be securely fastened to the floor.
24. Rows of seats between aisles may not exceed 14. Rows of seats opening onto aisles at one end only may not exceed 7 seats. (See continental spacing, Sec. 3313-3314)
25. Seat row spacing, back to back, required to be at least 33 inches, or 27 inches plus thickness of seat back and inclination of back.
26. Posting of capacity of assembly areas as noted is required by ORS 479.195.
- (27) Heating, cooking, air conditioning and similar service equipment are required to be approved and listed by a nationally recognized testing agency, such as U.L., Inc., and to be installed in compliance with agency's specifications and recognized safe practices. The installation of ventilation systems is required to be in substantial conformity with the 1970 U.B.C., Volume II. Corridors are not acceptable for use as supply or return air plenums.
28. A dust collection system is required for shop areas for nonportable machines emitting or producing dusts. (Ref: Sec. 1008) Dust collection equipment to be located outside of building or in one-hour separated room equipped with automatic sprinklers.
- (29) Pressure relief valves are required for all water heaters, installed either in separate water tank port or in port for hot water line. Shutoff valves may not be located between a water tank and relief valve.
30. A firefighting water supply is required within 500 feet of building that is capable of producing 500 gpm (minimum) for 10 minutes for each 5,000 square feet of floor area within building up to a maximum of 500 gpm for 30 minutes or from 5,000 to 15,000 gallons of stored or static water. (Ref: ORS 479.200)
31. Interior wet standpipes at least 2 inches in diameter located and equipped as per Sec. 3804 are required. Couplings and connections required to be American National Standard Thread. Where standpipes are served by sprinkler piping, a 1-inch reducing orifice is required at the hose valve connection.
32. Approved automatic sprinkler protection throughout occupancy is required. Piping to be flushed of debris, with certification of flushing submitted to this office.
33. Approved automatic sprinklers are required over and under stage and in all auxiliary areas, including dressing rooms, storerooms and workshops. (Sec. 3802) Sprinkler feed piping required to be flushed of debris, with certification of flushing submitted to this office.
34. Stage roof ventilators displacing at least 5% of stage floor area, openable by hand from stage floor and by fusible link or other heat activated device, are required. (Sec. 3901-06)
35. An approved fire alarm system with signals audible throughout building and manual alarm sending stations adjacent to exits from each floor or area are required.
36. An approved electrically supervised combustion detection of the ionization type is required for all patient rooms.
37. All exit doors and access ways thereto are required to be identified by approved electrically illuminated signs served by two circuits with one separate from all other circuits. (Sec. 3312)
38. An emergency power system is required for the () gymnasium () auditorium () building to maintain exit illumination for not less than one-half hour in event of public utility failure.
- (39) Fluorescent light fixtures installed on combustible surfaces are required to be U.L., Inc., approved for such mounting, or installed to provide at least 1-inch air space between the fixture housing and combustible material.

(NOTE) Local regulations or insurance standards for most favorable insurance credit may, and often do, exceed these minimum State requirements.